

**FINAL** 

#### Meeting Minutes Transmittal/Approval Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units 2440 Stevens Center, Room 1200, Richland, Washington October 20, 1994

FROM/APPROVAL:_ N	Ounc ancy We	rdel, 100 Area Unit Manager, RL (A5-19)
APPROVAL: P	hil Staats	Date 3/5/95, 100 Aggregate Area Unit Manager, WA Department of Ecology
APPROVAL: D	en <del>ni</del> s Fau	Date 3-16-95 alk, 100 Aggregate Area Unit Manager, EPA (B5-01)
Meeting Minutes are at	tached.	Minutes are comprised of the following:
Attachment #1	_	Meeting Summary
Attachment #2	_	Attendance Record
Attachment #3	_	Agenda
Attachment #4	-	Action Item Status List
Attachment #5	-	October Unit Manager's Meeting 100 Area Status Package
Attachment #6	-	Dust Suppressant and Wash Water Recycling Tests on 116-D-1B Trench Soil
Attachment #7	-	Soil Washing Remaining Open Items
Attachment #8	-	100-HR-3 Pump & Treat
Attachment #9	-	100-HR-3 NPL Agreement/Change Control Form

Prepared by:

Concurrence by:

Date: 3/21/95

Pret Bunn, Bob Scheck GSSC (B1-42)

Date: 3/16/95

Henckel, BHI Coordinator (H6-02)

Endan



## Attachment #1 Meeting and Summary of Commitments and Agreements

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units October 20, 1994

- 1. SIGNING OF THE AUGUST 100 AREA UNIT MANAGER'S MEETING MINUTES No meeting minutes were available to be signed.
- 2. ACTION ITEM UPDATE: (See Attachment #4 for complete status, items listed below indicate the update to Action Items made during the meeting):

1AAMS.15 Still being pursued.

3. NEW ACTION ITEMS:

No new action items were initiated.

4. 100 AREA ACTIVITIES:

100 Area Status

- Operable Unit Status: Attachment #5 was provided for general information on the 100 Areas Operable Units.
- 100-D Area Joan Woolard provided the general status.

SOIL WASHING STATUS - Shas Mattigod provided an update on the status of soil washing activities. He provided the handouts (see Attachments #6 and 7) and noted the open items remaining for start of soil washing. He noted the concern of concentrating radionuclides in the wash water. It is suspected that the use of electrolyte concentrate radionuclides contaminants in the recycle wash water. It was suggested that the treatment test should proceed utilizing only wash water with no electrolyte, and a proposal on these issues will be prepared for the next UMM meeting. Dennis agreed that electrolytes should not be used at the start-up of the soil washing test until warranted.

Joan Woolard added that a change package needs to be prepared to include change in milestone date because of open items remaining for start of soil washing (listed in Attachment #7). Dennis and Phil stated that the regulators' comments for the test procedures will be submitted by next Tuesday. A meeting was scheduled for Wednesday at 1:00PM, location to be determined. The meeting agenda includes all open items including a draft of the change package where work scope, schedule and electrolyte deletion will be discussed.

HR-3 PUMP & TREAT - Joan Woolard provided two handouts (see Attachments #8 and 9) on the status of 100-HR-3 Pump and Treat activities and NPL Change Control Form for Phase II Treatability Test. The NPL form summarized the agreement reached on a meeting scheduled for October 12, 1994, discussing Phase II work activities. Phase II is scheduled to start on November 15, 1995.

Joan Woolard discussed a period of shut down in the pump and treat process because field instrument detected hydrocarbons in the effluent stream. The system was off between September 15 through October 14. An off-site laboratory confirmed that there were no contaminants of concern in the effluent samples. It was concluded that the field instrument mistakenly identified standards of calibration for contaminants. The data was reviewed during the October 14 meeting. Joan added that the system is scheduled to be off during October 31 through November 1 for electrical work. Wayne Soaper requested a memo documenting the shut down.

- <u>D Ponds</u> Joan Woolard provided the general status. It was noted that no sampling occur at D Pond.
- 118-B-1 Excavation Joan Woolard provided the status of activities at the 118-B-1 burial ground excavation treatability test. She indicated that 150 cubic yards of contaminated soil and overburden were removed from D pit with low activity (2 mrem). Greg noted that he is taking care of culture resources issues with the tribal nations. Ted and Dennis requested copies of responding letter to the tribes.
- 100-B/C Area Dennis noted that he has no comments on the 100-BC-2 LFI/QRA, and requested that a copy be send to the tribal nations. Ted requested an opportunity to comment on the LFI. Because of the of time, it was decided that Ted will submitted comments on the LFI to Dennis, and EPA will determine if they want to reopen the issue.
- 100-K Area DOE is in the process of finalizing comments on the 100-KR-1 FFS and PP. The documents will be submitted to regulators in December.
  - Alan suggested to combine 100-KR-2 and 100-KR-3 Operable Units with a change package request. Dennis requested that the change package be submitted for the project manager meeting.
- 100-F Area 100-FR-3 FFS and PP are currently scheduled to be submitted to the regulators in December 1994. A change package will be submitted to the regulators to reschedule the submittal date to December 1995. The delay of the submittal date is to provide time to incorporate the TCE groundwater contaminant plume study. The Description Of Work for the soil gas investigation for the TCE plume is being reviewed by regulators. The comments to DOE will be submitted by next week.
  - The 100 Area groundwater monitoring program including 100-FR-3 is being modified for analytical list and number of sampled wells. The issue will be discussed with unit managers.
- 100-H Area Dick Biggerstaff provided the status of activities. Wayne requested more
  information on sampling costs and breakdown of costs associated with monitoring that has
  already occurred because justification of costs are needed. Bob Henkle will provide the
  required information.

#### 5. INFORMATION ITEMS:

• ROD Working Group Status - Bob Henkle noted that the next meeting is scheduled for the 25th discussing strategy.

## 9513336.2637

#### Attachment #1/Page 3 of 3

- <u>Source Document</u> Dennis noted that regulators' comments for the Source Document will be submitted to DOE next week.
- 6. NEXT MEETINGS: The next meetings are scheduled for November 17, 1994.

### 9513336.2638 Attachment #2

#### 100 Aggregate Area Unit Manager's Meeting Official Attendance Record October 20, 1994

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
RP Henckel	BHI	100 Aron	376-2091
Steptanie Johansen	Oames + Moore	<i>U</i> 55 <u>C</u>	9.46-3693
Greg B. Mitchem	SHI	100 Arca	372-9207
Diana Sickle	BHI	Support	375-9422
Alan D. Krya	BHI	100 K/F PriMs.	376-5634
Shirt Start	Ecology	ου	736-3029
St Briggman	CÓE	FyK	783-6253
Bof Someck	DismosTMore	GSSC-RL	744-3678
Illa Rayner	BAI	Support	372-9410
Richard Biggerstatt	745	It Area Duo; Myr	3>23>29
Tel Wooling	Galage	17 Area Proj Myr 1000, 13C 200 Adie 17	736-3012
JUAN WOULKED	BHI	DAw	6-2-531
Larry Gadbois	EPA	U·M.	376-9884
Dénnis Faille	EPA	U.W	376-8631
K. Michael Thompson	DOE-MC	UM	373-0750
Shas Mattigod	PNL	100 Area	376-4311
Pamela Innis	EPA	U.M	376-4919
Nicole Kimball	DOE-RL	100 Area	376-4670
Wayng Sopyr	Ecology	UM	736-3049
Kelly Gul	CHI	Tash Lead	373 3234
Palph Wilson	CHI	100 Area	375-9437
Moret Bunn	Panes + Moore	635C-RL	946-3695
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#### Attachment #3 Agenda

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units October 20, 1994

#### 100 Area General Discussions

- \* General Status R. Henckel
- \* Soil Washing J. Woolard
- \* HR-3 Pump & Treat J. Woolard
- \* 118-B-1 Burial Ground Excavation Treatability Test J. Woolard
- \* Project Managers Meeting

Operable Unit Status - Questions

Action Item Status

#### Attachment #4

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units October 20, 1994

#### Action Item Status List

ITEM NO.	ACTION	STATUS
1AAMS.15	Provide response to April 2 EPA letter concerning river seeps. Action: Mike Thompson (RL) 07/27/94.	Open (7/29/92). In DOE for transmittal (8/26/92). Letter is pending (03/31/94).
1AAMS.16	DOE should transmit Revision 1 of M-30-01.	Closed 07/27/94.
1AAMS.19	Meet, before the end of the month, with RL, EPA and Ecology concerned parties to discuss ERDF waste acceptance criteria and expected volumes. Action: Bryan Foley	Closed 07/27/94. Paul Beaver is arranging a meeting to discuss waste acceptance criteria for the ERDF.
1AAMS.20	Confirm that all persons requesting addition to the UMM agenda distribution list from the Washington Department of Ecology have been included. Action: Diana Sickle	Closed 08/24/94.

#### 100 AREA UNIT MANAGERS' MEETING

100-B/C, 100-K, 100-D, 100-H, AND 100-F

STATUS PACKAGE

October 20, 1994

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#### 100 AREA TREATABILITY TEST STATUS

#### 118-B-1 EXCAVATION TREATABILITY TEST

Excavated over 2000 cy overburden soil. Overburden between 5 feet and 12 feet depth has been mixed with solid waste material. Waste removal has been initiated. Work is currently behind schedule, though actual status cannot be assessed until waste removal rates have been determined. The disc screen has arrived from the vendor and is being assembled. Sorting table modifications are complete.

#### 100-HR-3 PUMP AND TREAT

Construction activities continue to prepare the system for 24 hour/day pumping. Most system construction items are complete with the exception of electrical controls and heat trace.

A meeting was held with the regulatory agencies to discuss Phase II operation. It was agreed that Phase II operation will consist of 24 hour/day pumping 5 days/week. Phase II operation will commence on November 15, 1994.

Operations were temporarily suspended from September 30 to October 14 due to concern over the possibility of volatile organics in the system (detected during field screening). Laboratory confirmation samples indicated no volatile organics of concern. Testing has been resumed.

#### 100 AREA SOIL WASHING

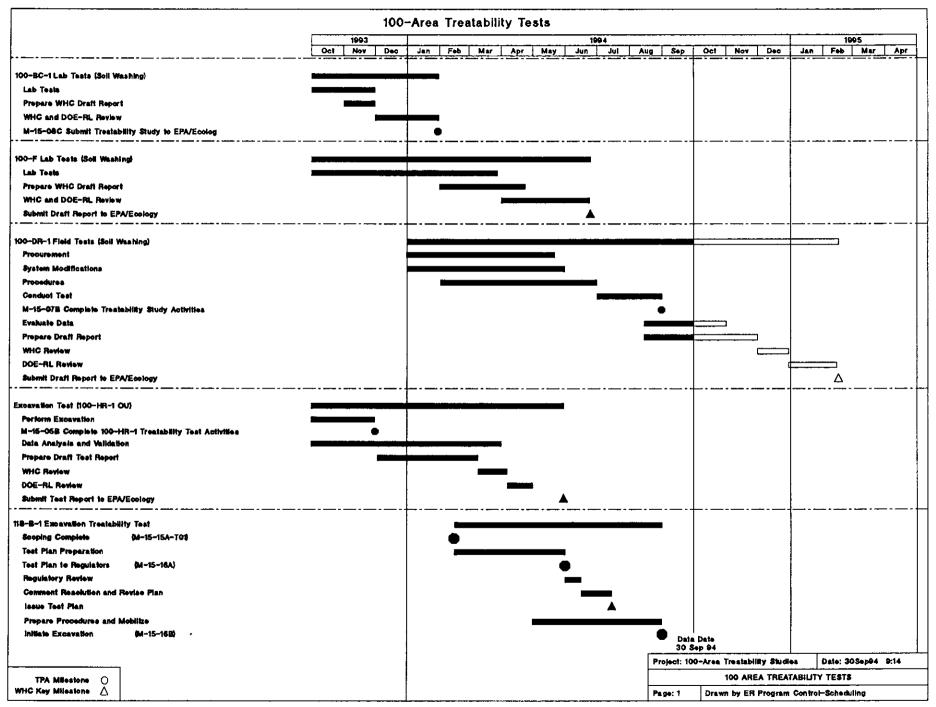
100-DR-1 Pilot Scale Test

Site preparation has been completed, including containment liners and layout for setting equipment. Equipment is currently being placed at the site. The final major piece of equipment (double deck screen) is scheduled to arrive on October 17, 1994. KEH is developing the electrical system for soil washing equipment.

Preparation of test documentation is proceeding. The Test Procedures were transmitted to the regulatory agencies for review in May, 1994. To date, only comments have been received by EPA. A quality assurance project plan, sampling and analysis plan, and waste control plan are being prepared for submittal to the regulatory agencies in October, 1994. A cooperative review effort will be required to complete document review for a November 1994 startup.

#### Laboratory Test

PNL is continuing with wash water recycle test. The focus is now on recycle tests using electrolyte. The first two of five cycles are completed. The third is in progress. Gamma data from the 2nd cycle indicate a buildup of activity in the wash water.



#### B AREA

#### 100-BC-1 FFS Report

DOE/RL review comments on the 100-BC-1 FFS and IRM Proposed Plan have been addressed. The reports are expected to be released in November.

#### 100-BC-2 QRA and LFI Reports

TASK 11: The 100-BC-2 QRA was initiated in January, 1994 and was subsequently combined with the LFI, producing one document.

TASK 13: The 100-BC-2 LFI was initiated in January, 1994 and was subsequently combined with the QRA, producing one document. The document is currently under regulator review, with comments due by October 15, 1994.

#### 100-BC-2 FFS Report

Work on the Focused Feasibility Study and IRM Proposed Plan has been initiated.

#### 100-BC-5 QRA and LFI Reports

Completed

#### 100-BC-5 FFS Report

The 100-BC-5 FFS is currently under DOE review.

#### Riverland ERA/100-IU-1

On July 26, 1994 a PNL archeologist conducting a cultural resources field survey on the Riverland ERA Site discovered a suspect waste site. The suspect site is located in the southwest portion of the Riverland ERA Boundary. The site is approximately 360 yards southwest of Well 6-49-111. Suspect waste herbicide/pesticide metal 5-gallon containers were found covering an approximate area of 8 ft. x ft.

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#### K AREA

Focused Feasibility Study

Work continued on the 100-KR-1 and 100-KR-4 Focused Feasibility Studies. The 100-KR-1 and 100-KR-4 FFSs were submitted for DOE/RL review on August 11, 1994. Comment resolution has been completed and incorporation is underway.

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#### D AREA

#### 100-DR-1

#### 100-DR-1 Focused Feasibility Study

o 100-DR-1 Focused Feasibility Study report was transmitted to DOE-RL for submittal to the Regulators to meet September 30, 1994 date for the TPA milestone M-15-07C.

#### 100-DR-1 Interim Remedial Measures Proposed Plan

o 100-DR-1 IRM Proposed Plan was transmitted to DOE-RL for submittal to the Regulators to meet September 30, 1994 TPA milestone M-15-07D.

#### 100-DR-2

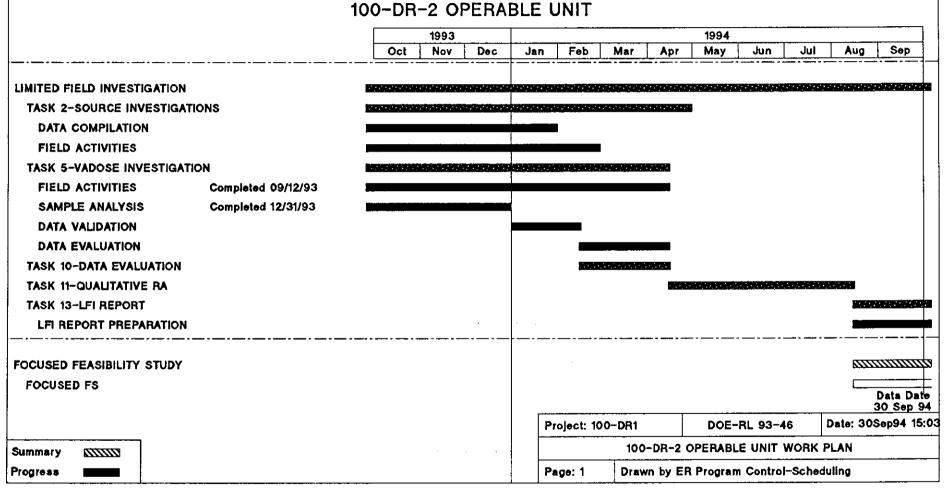
#### 100-DR-2 Work Plan

o A meeting was held to discuss resolutions for the Ecology and EPA comments.

#### 100-DR-2 LFI (LFI/QRA) Report

o The internal review has been completed and the comments have been addressed.

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#### H AREA

#### 100 HR-1

• FFS REPORT and the IRM Proposed Plan: The 100 HR-1 Operable Unit Focused Feasibility Study Report, DOE/RL-94-63, Draft A, and the Proposed Plan for Interim Remedial Measures at the 100-HR-1 Operable Unit, DOE/RL-94-101, Draft A, were submitted to DOE September 23. DOE transmitted the documents to the regulators September 30, 1994 in compliance with TPA Milestones M-15-05C and M-15-05D, respectively.

#### 100 HR-2

- LFI/QRA REPORTS: The 100-HR-2 LFI/QRA Report (single document), DOE/RL-94-53, Draft A, was submitted to DOE on September 8th, eight days ahead of schedule. DOE transmitted the document to the regulators on September 30, 1994 in compliance with TPA Milestone M-15-18A.
- FOCUSED FEASIBILITY REPORT: The 100-HR-2 FFS Report, DOE/RL-94-65, Decisional Draft, is currently being revised to incorporate the comments developed during the 100-BC-1, DR-1, and HR-1 FFS DOE reviews.
- IRM PROPOSED PLAN: Work has been initiated on the 100-HR-2 Proposed Plan. Comments developed during the 100-BC-1, DR-1, and HR-1 PP DOE reviews are being incorporated in the document.
- RADIOŁOGICAL SURVEY: The survey report for the overflow trench extension is currently undergoing BHI internal review.

#### 100 HR-3

- The groundwater treatability pilot test in D Reactor area was initiated five days ahead of the August 31, 1994 TPA Milestone M-15-06E date.
- LFI AND QRA REPORTS: The 100 HR-3 LFI Report, DOE/RL-93-43, Rev 0, and the QRA Report, WHC.SD.EN.RA-007, Rev 0, were transmitted to DOE on September 23rd for submittal to the regulators September 30, 1994. The documents will be submitted for public review.
- GROUNDWATER SAMPLING: Validation of 100 HR-3 Round 7 groundwater sampling event is in progress.
- FFS REPORT and IRM Proposed Plans: The 100 HR-3 Focused Feasibility Study Report, DOE/RL-94-67, Draft A, and the Proposed Plan for Interim Remedial Measures at the 100-HR-3 Operable Unit, DOE/RL-94-102 were submitted to DOE on September 23rd. DOE transmitted the documents to the regulators September 30, 1994 in compliance with TPA Milestones M-15-06C and M-15-06D, respectively.

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- INSITU FLOW SENSORS: Insitu flow sensors continue to operate normally and data is being reduced and evaluated.
- AQUIFER TEST PLAN WELLS: 24 hour constant rate-discharge tests
  were conducted on each of the three test wells (lower screen only,
  in the Dipole well completion). Conventional slug tests were also
  conducted on the two non-dipole wells. Further work suspended
  pending identification of FY 95 funding.
- 100-IU-4 -- SODIUM DICHROMATE BARREL DISPOSAL SITE ERA: The AR Report and the Proposed Plan Report for this ERA are currently in regulatory review.

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IRM Proposed Plan to the Regulators												30 Sep 94
				P	roject: 10	0-HR-	2	DOE-	RL 93-2	20	Date: 30	Sep94 8:3
Summary						100	)-HR-2	OPERABI	E UNIT	WORK	PLAN	
Progress				P	age: 1	Drav	wn by El	R Program	n Contro	I-Sche	duling	

	100-HR-3 OF	ENA	DLL OI	411								
		1993						1994				
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LIMITED FIELD INVESTIGATION	2020000											
Task 13-LFI Report												
DOE Review & Icorporation												
M-15-06A LFI Report to Regulators	•	•										
Initiate Evaluation of New Groundwater Wells		· 		<del></del>	<del>.</del> .				·			
FOCUSED FEASIBILITY STUDY		6								egeriri.	<u> </u>	
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#5/Page 19 of 21

#### F Area

#### 100-FR-1

TASK 11: 100-FR-1 QRA (WHC-SD-EN-RA-013, Rev. 0) was submitted to DOE/RL on September 2, 1994 for transmittal to EPA/Ecology.

TASK 13: 100-FR-1 LFI (DOE/RL-93-82, Draft A) was submitted to DOE/RL on September 2, 1994 for transmittal to EPA/Ecology.

#### 100-FR-3

Task 11: Regulator review comments on the 100-FR-3 QRA have been received and comment resolutions submitted to DOE.

Task 13: Regulator review comments on the 100-FR-3 LFI have been received and comment resolutions submitted to DOE.

Focused Feasibility Study

 The Focused Feasibility Study has been initiated and the ERC review completed. The FFS was submitted to DOE for Review.

100	-FR-1 O	PERA	ABLE U	NIT									ļ
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Sample Analysis													
Data Validation													1
M-15-13A Validated Data to the Regulators			•										
Data Evaluation													
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	100-FR-3 OPERABLE	UNIT
	1993	1994
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Task 11-Qualitative RA	the state of the s	equation and extensive the transfer for the forther
Task 13-LFI Report		
LFI Report Preparation		
WHC Review & Incorporation		
DOE Review & Incorporation		
M-15-13F LFI Report to the Regulators		
FOCUSED FEASIBILITY STUDY		
FS Report		
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IRM Proposed Plan Preparation		
WHC Review & Incorporation		
DOE Review & Incorporation		Data Date
		30 Sep 94
		Project: 100-FR-3 DOE-RL 91-53 Date: 30Sep94 14:22
Summary (SSSSSS)		100-FR-3 OPERABLE UNIT WORK PLAN
Progress Manual		Page: 1 Drawn by ER Program Control-Scheduling

Attachment #6

# Dust Suppressant and Wash Water Recycling Tests on 116-D-1B Trench Soil

S. V. Mattigod and R. J. Serne Pacific Northwest Laboratory

Unit Managers' Meeting, October 20, 1994

## Dust Suppressant and Wash Water Recycling Tests on 116-D-1B-Soil

- Effects of dust suppressants on wet-sieving and radionuclide distribution.
- Test contaminant distribution during wet sieving wash water recycling (10 cycles).
- Test contaminant distribution during attrition scrubbing (with water and with electrolyte) wash water recycling (5 cycles each).

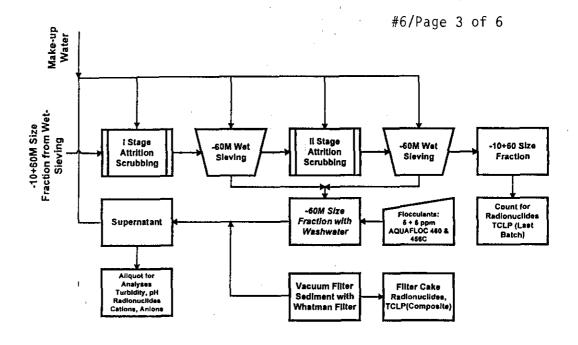
## **Dust Suppressant Tests: Summary**

- Wash waters from DUSTAC treated samples could not be flocculated effectively.
- Wash waters from treated soil samples had about 5 to 10 times more TDS than the untreated sample.
- Dust suppressants caused acidification of wash waters.
- Flocculated wash waters from treated soil samples contained significantly enhanced activities of <sup>60</sup>Co, <sup>137</sup>Cs, and <sup>152</sup>Eu.
- Effects of dust suppressant treated soil on wash water recyclability are unknown.

## Wet Sieving Wash Water Recycling Tests: Summary

- Radionuclide (<sup>60</sup>Co, <sup>137</sup>Cs, and <sup>152</sup>Eu) distribution between soil and wash water remained relatively constant during wash water recycling.
- Wash water from each recycling step was readily flocculated by using 10 ppm of CAT-FLOC L ( a polymeric flocculent).
- Radionuclide (<sup>60</sup>Co, <sup>137</sup>Cs, and <sup>152</sup>Eu) activities in recycled wash water were very low.
- Concentrations of all trace elements in flocculated recycled wash water remained low.

#### rest scheme for Recycling washwater from Attrition Scrubbling with Water Trench 116-D-1B Soil



## Attrition Scrubbing (Water Medium) Wash Water Recycling Tests: 116-D-1B Soil. Wash Water Characteristics: Major Elements (mg/L)

<b>-</b> 14	Тар		PWCC*				
Element	Water	1	· <u>II</u>	- 111	IV	ν	PWCC
Ca	21.6	23.2	29.9	41.8	51.0	54.8	
Mg	4.8	4.6	6.0	7.7	10.6	11.9	
К	1.3	3.4	7.5	7.0	8.4	10.3	
Na	5.5	15.6	35.2	34.0	41.5	46.4	
CI	8.7	5.0	6.2	55.5	77.1	92.5	2500
NO <sub>3</sub>	7.2	5.1	5.3	5.1	5.8	5.6	450
SO₄	16.0	20.8	20.6	20.0	18.2	20,2	2500
HCO3	55.1	92.5	105.5	134.0	135.5	131.6	

<sup>\*</sup>Purge Water Collection Criteria (WHC-CM-7-5, 1993)

## Attrition Scrubbing (Water Medium) Wash Water: 116-D-1B Soil: Trace Elemental Composition (µg/L).

#6/Page 4 of 6

	Tap Water		Recycling Step								
Element		1	II	III	IV	V	PWCC*				
Ag	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	10				
As	1.2	3.1	4.4	5.0	2.8	3.6	480				
Ва	18.1	9.5	9.9	23.4	31.0	38.9	10000				
Cd	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	11_				
Cr	<1.0	7.2	6.8	7.5	9.0	8.0	110				
Cu	4.3	20.9	28.1	22.1	29.4	14.5	120				
Hg	<2.0	<1.0	<1.0	1.0	<1.0	<1.0	0.1				
Pb	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	32				

\*PWCC: Purge Water Collection Criteria. WHC-CM-7-5, 1993.

## Attrition Scrubbing (Water Medium) Wash Water: 116-D-1B Soil: Trace Elemental Composition (µg/L).

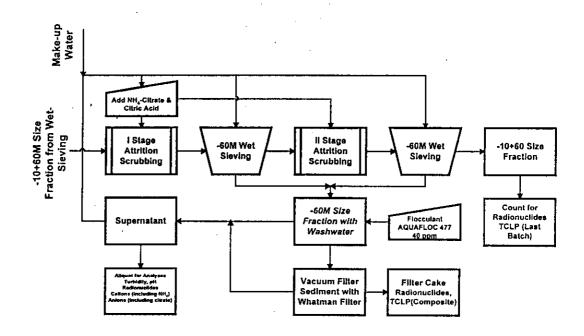
T1	Тар	l	Diagona				
Element	Water	1	11	III.	IV	V	PWCC*
Be	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	53
Fe -	<50	<10	<10	110	170	180	3000
Mn	4.1	<1.0	<1.0	13.0	7.6	18.8	500
Ni	<1.0	<1.0	4.1	7.3	10.0	10.6	1600
Sb	<1.0	<1.0	<1.0	<1.0	1.2	1.0	16000
TI _	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	400
U	1.2	2.2	2.5	3.6	3.9	4.1	590
V	2.4	26.8	41.3	30.7	23.1	21.3	400
Zn	9.4	16.0	11.8	19.0	21.3	25.0	1100

\*PWCC: Purge Water Collection Criteria. WHC-CM-7-5, 1993.

## Two-Stage Attrition Scrubbing (water medium) Wash Water Recycling Tests: Summary

- Radionuclide (<sup>60</sup>Co, <sup>137</sup>Cs, and <sup>152</sup>Eu) distribution between soil and wash water remained relatively constant during wash water recycling.
- Wash water from each recycling step was readily flocculated by using 5 ppm each of AQUAFLOC 460 and 456C (polymeric flocculents).
- Radionuclide (<sup>60</sup>Co, <sup>137</sup>Cs, and <sup>152</sup>Eu) activities in flocculated recycled wash water were very low.
- Concentrations of all trace elements in flocculated recycled wash water remained low.

#### Test Scheme for Recycling Washwater from Attrition Scrubbing with Electrolyte Trench 116-D-1B Soil



Attrition Scrubbing (Electrolyte Medium) Wash Water

Recycling Tests: 116-D-1B Soil.

Preliminary Data: Radionuclide Activity in 2 - 0.25-mm

Size Fraction (pCi/g)

		Recycling Step/Scrubbing Stage													
Radionuclide	1		11		101			IV		٧					
	1	2	1	2	1	2	1	2	1	2					
•оСо	0.4	0.1	0.3	0.2	0.4	1									
<sup>137</sup> Cs	53.8	46.3	56.0	40.3	62.3		-								
<sup>152</sup> Eu	8.3	4.7	9.1	5.0	12.0				-						

Attrition Scrubbing (Electrolyte Medium) Wash Water Recycling Tests: 116-D-1B Soil. Preliminary Data: Wash Water Characteristics

, Parameter	Тар	Recycling Step								
, rarameter	Water	I	II	111	IV	V				
pH (SU)	7.3	3.6	3.7	3.7						
Conductivity (µS/cm)	142	4820	8340	10930						
Turbidity (NTU)	2.79	249	124	152						
<sup>€0</sup> Co (pCi/L)		327	950	1367						
<sup>137</sup> Cs (pCi/L)		1515	4130	5907						
152Eu (pCi/L)		3997	11290	15840						

Purge Water Collection Criteria (WHC-CM-7-5, 1993) <sup>60</sup>Co, and <sup>137</sup>Cs are 1000, and 2000 pCi/L respectively.

#### OCTOBER 1994 UNIT MANAGERS MEETING

Open Items Remaining for Start of Soil Washing

- o Need to resolve EPA comments on test procedures. Haven't received comments from Ecology. Comment resolution meeting should be scheduled
- o Several meetings were held during the Spring to reach agreement concerning analytical methods/numbers of samples etc. Agreement has not yet been reached.
  - BHI is preparing a SAP and QAPP to address these issues. These document should be ready for transmittal to RL and Regulatory Agencies next week (Week of October 24, 1994).
- o Waste Control Plan submitted to Regulatory Agencies last week. Requires RL and Ecology approval.
- o Preliminary bench scale water recycle tests should significant build up of radionuclides in the electrolyte.
- o Milestone negotiations.

Page 1 of 4

#### Attachment #8

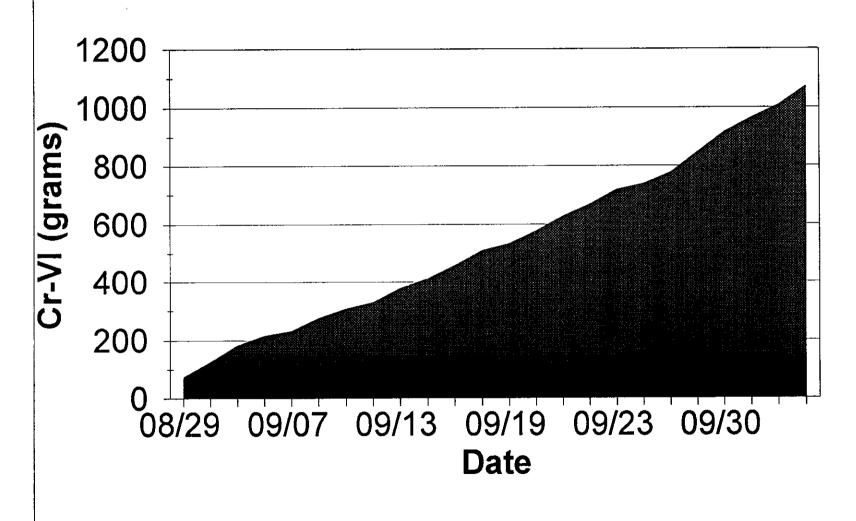
### 100-HR-3 PUMP AND TREAT STATUS OCTOBER UNIT MANAGERS MEETING

- o Phase II Construction Activities Continue on Schedule. Remaining activities include:
  - electrical wiring
  - heat trace
  - level indicators
  - minor pipefitting work
- o The system will be shut down on October 31 and November 1 to complete final electrical wiring (electrician will also be working on Saturady October 21, 1994).
- Operations were temporarily suspended from September 30 to October 13 due to concern over the possibility of volatile organics in the system (detected during field screening). Laboratroy confirmation samples indicated no volatile organics of concern.
- O Currently extracting out of wells D5-14, D5-15, and D5-16 (Well D5-16 was placed on line September 29, 1993). Injecting into D5-18 and D5-19.

100-HR-3 Pump and Treat Chromium-VI Mass Removed

		Wel	114			We	II 15			We	II 16		Effl.	Total	Cum.	Cum.
Date	Time	Flow	Cr-6 conc.	Mass	Time	Flow	Cr-6 conc.	Mass	Time	Flow	Cr-6 conc.	Mass	Cr-6 conc.	Mass	Mass	Flow
	hrs	gpm	ppb	grams	hrs	gpm	ppb	grams	hrs	gpm	ppb	grams	ppb	grams	grams	gal
08/26					3.50	20	1674	26.6					0	26.6	27	4.20E+03
08/29					6.25	20	1674	47.5					0	47.5	74	1.17E+04
08/31					6.50	21	1674	51.8	1				0	51.8	126	1.99E+04
09/01	İ				7.18	21	1674	57.2	İ				0	57.2	183	2.89E+04
09/02					3.83	21	1780	32.5					0	32.5	216	3,38E+04
09/07	ļ				2.25	20	1681	17.2					0	17.2	233	3.65E+04
09/08	ļ				5.25	20	1839	43.8					0	43.8	277	4.28E+04
09/09					3.85	20	1819	31.8	1				0	31.8	308	4.74E+04
09/12					2.92	20	1740	23.1	ł				0	23.1	331	5.09E+04
09/13	ĺ				6.42	19	1760	48.7					0	48.7	380	5.82E+04
09/14					4.67	19	1582	31.8					0	31.8	412	6.35E+04
09/15					6.83	19	1582	46.6					0	46.6	458	7.13E+04
09/16					6.83	19	1780	52.4					0	52.4	511	7.91E+04
09/19					3.00	19	1760	22.8					0	22.8	534	8.25E+04
09/20					5.67	19	1786	43.6	ŀ				0	43.6	577	8.90E+04
09/21	İ				6.70	18.75	1786	50.9					0	50.9	628	9.65E+04
09/22					4.90	19	1850	39.1					0	39.1	667	1.02E+05
09/23	4.75	4	1600	6.9	5.96	19	1716	44.1					0	51.0	718	1.10E+05
09/26	4.72	4.5	1625	7.8	1.67	19	1840	13.2					0	21.1	739	1.13E+05
09/28	3.82	5	1650	7.1	3.93	19	1800	30.5	1				0	37.6	777	1.19E+05
09/29	6.73	6.2	1650	15.6	6.93	19	1700	50.8	3.33	3	1225	2.8	0	69.2	846	1.30E+05
09/30	6.15	6.4	1800	16.07	6.15	18.5	1800	46.4	6.15	3.8	1250	6.6	0	69.1	915	1.40E+05
10/03	4.22	6	1800	10.34	4.30	18	1900	33.35	4.18	4	1350	5.12	0	48.8	964	1.48E+05
10/17	4.70	5	1770	9.43	5.07	17	1450	28.34	4.6	3.25	1200	4.07	0	41.8	1006	1.55E+05
10/18	7.33	5	1675	13.92	7.33	17.2	1525	43.61	7.38	3	1300	6.53	lo	64.1	1070	1.66E+05





### 100-HR-3 Ion Exchange Loading Time Log

Date	Time on	Time off	Lead	1st Lag	2nd Lag	S/B	Run Time	Flow rate (gpm)	Total Flow (gal.)	Cum. Flow (gal.)	Total C/V (col. vol.)	Cum. C/V (col. vol.)	Conc. Cr (ppb)
											•	17	0
08/29	14:20	15:35	T-100	T-200	T-300	T-400	01:15	35	2625	2.63E+03	16.9 -37.8	55	0
08/31	09:55	12:38	T-100	T-200	T-300	T-400	02:43	36	5868	8.49E+03	47.5	102	0
09/07	11:50	15:15	T-100	T-200	T-300	T-400	03:25	36 50	7380	1.59E+04		139	0
09/08	09:50	11:43	T-100	T-200	T-300	T-400	01:53	50	5650	2.15E+04	36.4		
09/12	12:00	14:50	T-100	T-200	T-300	T-400	02:50	50	8500	3.00E+04	54.7	193	0
09/12	14:58	15:25	T-100	T-200	T-300	T-400	00:27	50	1350	3.14E+04	8.7	202	
09/13	08:29	10:34	T-100	T-200	T-300	T-400	02:05	53	6625	3.80E+04	42.6	245	
09/14	11:25	11:52	T-100	T-200	T-300	T-400	00:27	53	1431	3.94E+04	9.2	254	
09/14	11:55	14:55	T-100	T-200	T-300	T-400	03:00	53	9540	4.90E+04	61.4	315	
09/14	14:58	15:22	T-100	T-200	T-300	T-400	00:24	53	1272	5.02E+04	8.2	323	
09/15	08:20	09:53	T-100	T-200	T-300	T-400	01:33	53	4929	5.52E+04	31.7	355	
09/16	11:30	12:55	T-100	T-200	T-300	T-400	01:25	53	4505	5.97E+04	29.0	384	
09/19	10:32	12:02	T-100	T-200	T-300	T-400	01:30	53	4770	6.44E+04	30.7	415	
09/19	12:02	12:56	T-100	T-200	T-300	T-400	00:54	56	3024	6.75E+04	19.5	434	
09/19	12:59	14:50	T-100	T-200	T-300	T-400	01:51	56	6216	7.37E+04	40.0	474	
09/20	11:25	11:35	T-100	T-200	T-300	T-400	00:10	50	500	7.42E+04	3.2	477	
09/20	11:35	12:30	T-100	T-200	T-300	T-400	00:55	56	3080	7.73E+04	19.8	497	
09/20	12:35	15:30	T-100	T-200	T-300	T-400	02:55	56	9800	8.71E+04	63.1	560	
09/21	08:37	09:12	T-100	T-200	T-300	T-400	00:35	56	1960	8.90E+04	12.6	573	
09/22	11:04	14:36	T-100	T-200	T-300	T-400	03:32	56	11872	1.01E+05	76.4	649	
09/22	14:42	15:30	T-100	T-200	T-300	T-400	00:48	56	2688	1.04E+05	17.3	667	0
09/23	09:20	09:38	T-100	T-200	T-300	T-400	00:18	56	1008	1.05E+05	6.5	673	0
09/27	09:02	10:30	T-100	T-200	T-300	T-400	01:28	56	4928	1.10E+05	31.7	705	0
09/27	11:00	12:10	T-100	T-200	T-300	T-400	01:10	56	3920	1.13E+05	25.2	730	0
09/27	12:36	13:12	T-100	T-200	T-300	T-400	00:36	56	2016	1.15E+05	13.0	743	0
09/27	13:55	15:32	T-100	T-200	T-300	T-400	01:37	56	5432	1.21E+05	35.0	778	0
09/28	09:25	10:11	T-100	T-200	T-300	T-400	00:46	56	2576	1.23E+05	16.6	794	0
09/29	12:05	15:25	T-100	T-200	T-300	T-400	03:20	56	11200	1.35E+05	72.1	867	0
09/30	09:59	12:09	T-100	T-200	T-300	T-400	02:10	56	7280	1.42E+05	46.8	913	0
10/03	09:10	09:25	T-100	T-200	T-300	T-400	00:15	56	840	1.43E+05	5.4	919	0 :
10/14	13:26	14:13	T-100	T-200	T-300	T-400	00:47	56	2632	1.45E+05	16.9	936	0
10/17	08:40	12:55	T-100	T-200	T-300	T-400	04:15	56	14280	1.60E+05	91.9		0
10/18	10:11	15:15	T-100	T-200	T-300	T-400	05:04	56	17024	1.77E+05	109.5		•

Control Number:	100 NPL Agreement/Change Co	ntrol Form	Date Submitted:							
73			10/20/94							
	Change X Agreement I	nformation	Date Approved:							
	Operable Unit(s): 100-HR-3									
Project:  Date Document Last Issued:										
100-HR-3 Groundwa Summary of Items WSDOE, EPA										
Originator: J. (	G. Woolard	Phone: 3	76-2539							
Summary Descript	ion:									
operating and design ag	october 12, 1994, to discuss revising some preements documented in NPL agreement form leached by the Tri-Parties on October 12,	n #66 and DOE/RL-94	Pump and Treat 4-54. The following							
<ul> <li>Phase II treatabili holidays. The extracti operated during an 8-ho</li> </ul>	ty test operations will be conducted 24 h on network will be operated 24 hours/day our day shift.	ours per day, 5	ays per week, excluding nge unit will be							
	• The ion exchanger may be operated in a 2+2 configuration (2 columns in series [lead/lag] in parallel with the other 2 columns in series [lead/lag]) at a flowrate up to 80 gpm (or higher if feed pump is capable).									
Drip pans will not	be installed under couplings in the extra	action and injection	on pipelines.							
Justification and	d Impact of Change:									
	m 7 days to 5 days per week will save ope e test plan will require modification to									
an 8 hour shift. Opera	nge unit in a 2+2 configuration will allo ting in this configuration will not adver dequate backup will be provided by the tw	sely impact the qu	uality of the							
underneath the influent	led to provide environmental protection.  and effluent tanks and ion exchange unit the environment from spills.									
J. G. Hooland	Q. Q	D-t- /	-							
BHI Operable Unit	9 90	Date 10 20	94							
K. M. Thompson	ma 1 A	Date Of	20 (01)							
DOE Unit Manager	R. Molet Llay	04	20, 1799							
W. W. Soper Wayne W. Sopre Date 10-20-94										
Ecology Unit Manager										
K. J. Oates Du Date 10-20-94										
Env. Protection Agency Unit Manager '										
Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3.										

### 9513336.2671

## Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units October 20, 1994

Nancy Werdel Mike Thompson Bryan Foley Heather Trumble Steve Balone	DOE-RL, RSD (A5-19) DOE-RL, PRD (A5-19) DOE-RL, RSD (A5-19)
Dennis Faulk	Support to EPA
Phil Staats	
Lynn Albin	Washington Dept. of Health
G. R. Eidam, BHI /A. D. Krug (H6-02)  Bob Henckel, BHI  Diana Sickle, BHI  Kay Kimmel  R. Scott Hajner  Andrea Hopkins  Tom Page (Please route to:)  Cheryl Thornhill  PNL (K1-19)  Mark Hanson  PNL (K1-51)	

Please inform Kay Kimmel (946-3692) of Mactec/Dames & Moore of deletions or additions to the distribution list.

Original Sent to: ADMINISTRATIVE RECORD: 100 AAMS; Care of EDMC, WHC (H6-08)